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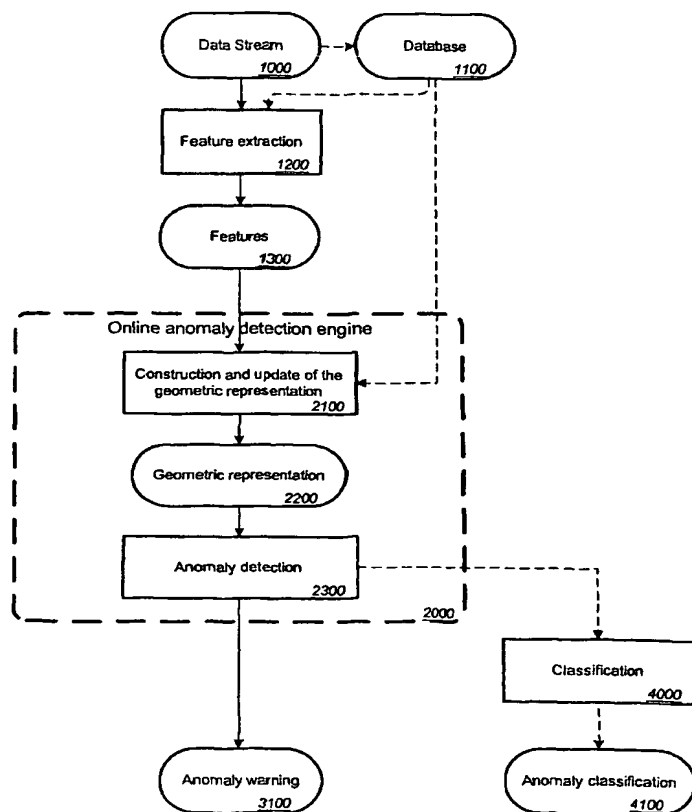
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(54) Title: METHOD AND APPARATUS FOR AUTOMATIC ONLINE DETECTION AND CLASSIFICATION OF ANOMA-
LOUS OBJECTS IN A DATA STREAM



(57) Abstract: The invention is concerned with a method for automatic online detection and classification of anomalous objects in a data stream, especially comprising datasets and / or signals, characterized in that a) the detection of at least one incoming data stream (1000) containing normal and anomalous objects, b) automatic construction (2100) of a geometric representation of normality (2200) the incoming objects of the data stream (1000) at a time t_1 subject to at least one predefined optimality condition, especially the construction of a hypersurface enclosing a finite number of normal objects, c) online adaptation of the geometric representation of normality (2200) in respect to received at least one received object at a time $t_2 \geq t_1$, the adaptation being subject to at least one predefined optimality condition, d) online determination of a normality classification (2300) for received objects at t_2 in respect to the geometric representation of normality (2200), e) automatic classification of normal objects and anomalous objects based on the generated normality classification (2300) and generating a data set describing the anomalous data for further processing, especially a visual representation.



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